

HDX-UWB规格书

HDX-UWB Datasheet

文档信息 Document Information

标题 Title HDX-UWB 规格书 HDX-UWB Datasheet

文档类型 Document Type 规格书 Datasheet

文档编号 Document No. WN-21090200

版本日期 Version & Date V1.01 15-Sep-2021

秘密等级 Classification 公开 Opened

版本历史 Reversion History

版本 Version	备注 Remark	制作人 Maker	日期 YY.MM.DD
V1.01	初始发布 Initial Release	Sherman	2021.09.16

95Power 保留本文档及本文档所包含的信息的所有权利。95Power 拥有本文档所述的产品、名称、标识和设计的全部知识产权。严禁没有征得 95Power 的许可的情况下复制、使用、修改或向第三方披露本文档的全部或部分内容。

95Power 对本文档所包含的信息的使用不承担任何责任。没有明示或暗示的保证,包括但不限于关于信息的准确性、正确性、可靠性和适用性。95PowerB 可以随时修订这个文档。可以访问 www.95power.com.cn 获得最新的文件。

Copyright © 2021, 深圳市微能信息科技有限公司。

95Power® 是深圳市微能信息科技有限公司在中国的注册商标。

95Power reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. Reproduction, use, modification or disclosure to third parties of this document or any part thereof without the express permission of 95Power is strictly prohibited.

The information contained herein is provided “as is” and 95Power assumes no liability for the use of the information. No warranty, either express or implied, is given, including but not limited, with respect to the accuracy, correctness, reliability and fitness for a particular purpose of the information. This document may be revised by 95Power at any time. For most recent documents, visit www.95power.com.cn.

Copyright © 2021, 95Power Information Technology Co., Ltd.

95 Power ® is a registered trademark of 95Power Information Technology Co., Ltd. in China.

目录 Content

1. 简介 General Description.....	4
2. 结构尺寸 Dimension figure.....	5
3. 产品主要技术参数 Main technical parameters of the product.....	5
4. 测试结果 Test Results.....	6
4.1 网络分析仪测试报告 Network analyzer test report.....	6
4.2 暗室 2D、3D 辐射图 Darkroom 2D and 3DRaditation Pattern(整机数据).....	7
4.2.1 效率及增益.....	7
4.2.2 2D/3D 场型图.....	7
5. 联系方式 Contact.....	11

1. 简介 General Description

HDX-UWB 天线旨在集成到基于 DW1000 的标签或基站设计中。它可以与 95Power 的 DW1000 UWB 收发器配合使用。

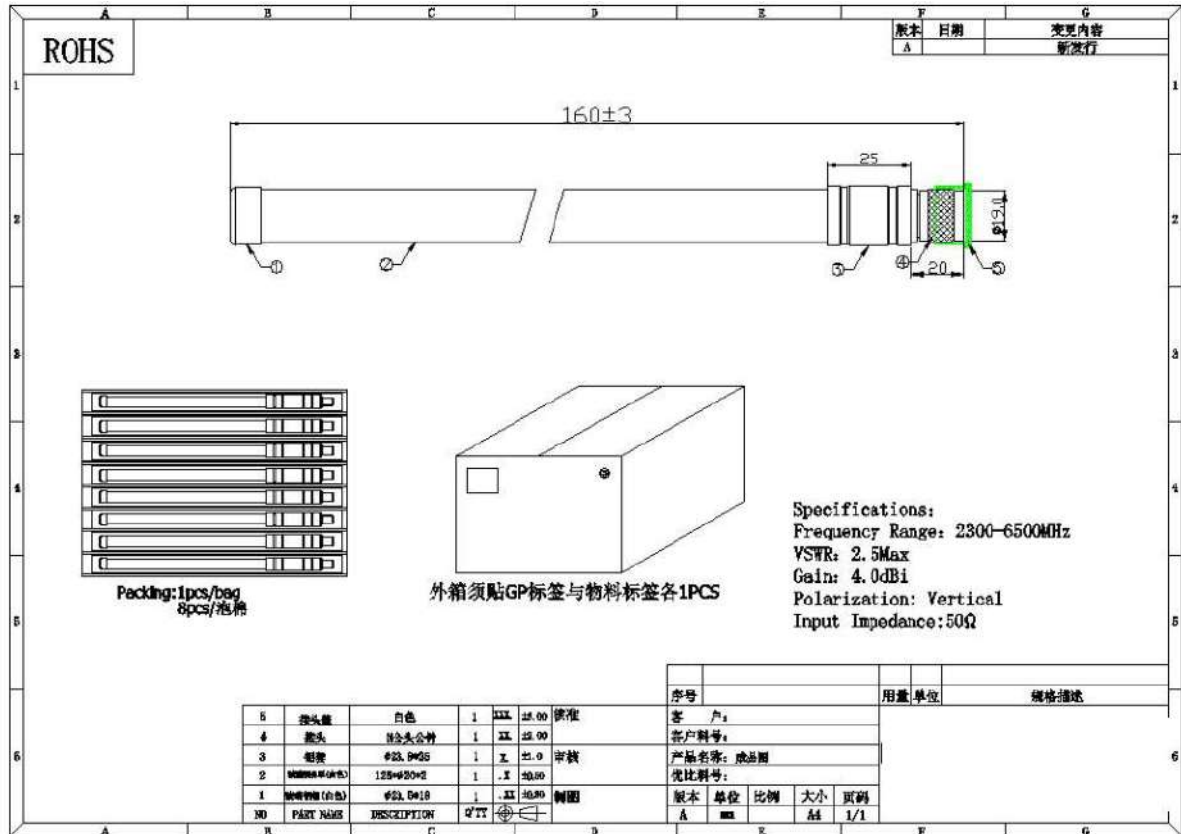
The HDX-UWB antenna is designed to be integrated onto a DW1000 based tag or anchor design. It is designed specifically to work with 95Power's DW1000 UWB transceiver providing a low cost, high efficiency solution with excellent fidelity and low group delay variation with antenna orientation.



Figure 1 HDX-UWB antenna

2. 结构尺寸 Dimension figure

单位: mm Unit:mm



3. 产品主要技术参数 Main technical parameters of the product

技术指标 Electrical Specifications	
频率范围 Frequency Range	2300-6500MHz
驻波比 VSWR	≤2.5
增益 Gain	4.0dBi
水平波瓣宽度 Horizontal beam width	360°
垂直波瓣宽度 Vertical beam width	55°
极化方式 Polarization	垂直 Vertical
输入阻抗 Input Impedance	50Ω
最大功率 Maximum input power	50W
雷电保护 Lightning protection	直流接地 DC Ground

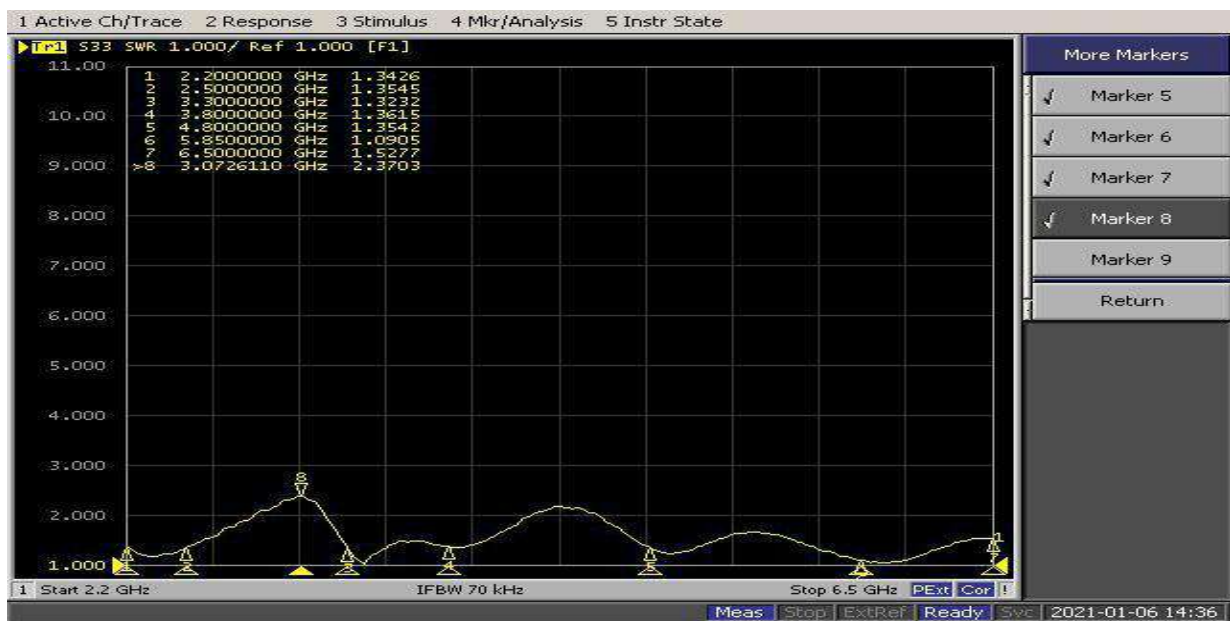
机械指标 Mechanical Specifications	
接口形式 Input connector type	N 型公头 N-Male
天线尺寸 Dimensions	Φ20×160mm
天线重量 Antenna weight	0.11kg
天线罩材料 Radome material	玻璃钢 Fiberglass
天线罩颜色 Radome color	白色 White
工作温度 Operating temperature	-40℃~60℃
极限风速 Rated Wind Velocity	60 m/s
安装方式 Installation mode	配合吸盘等安装座使用 Use with suction cup and other mounting seat

4. 测试结果 Test Results

以下结果显示了 HDX-UWB 测试性能：

The following results show the testing performance of HDX-UWB:

4.1 网络分析仪测试报告 Network analyzer test report



4.2 暗室 2D、3D 辐射图 Darkroom 2D and 3DRaditation Pattern(整机数据)

4.2.1 效率及增益 Efficiency and gain

Frequency (MHz)	Efficiency (%)	Peak Gain / dB
2400	91.62	2.42
2500	83.18	2.60
2700	69.98	1.22
3600	72.61	2.08
4900	86.7	4.44
5500	81.1	2.88
5800	80.35	2.11
6000	90.16	2.94

4.2.2 2D/3D 场型图 2D/3D radiation polar pattern

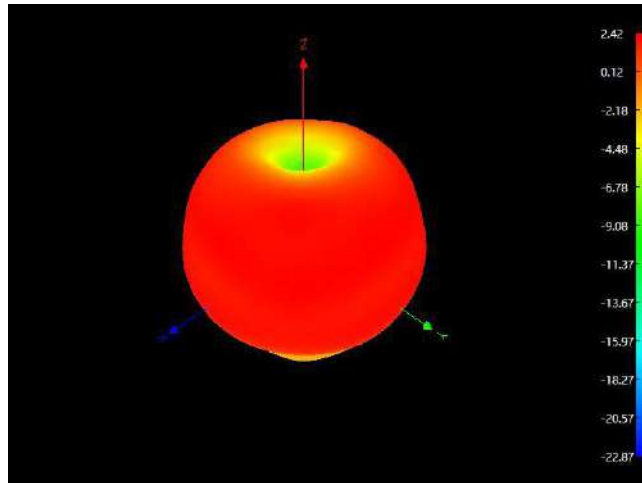


Figure 2 2400MHz

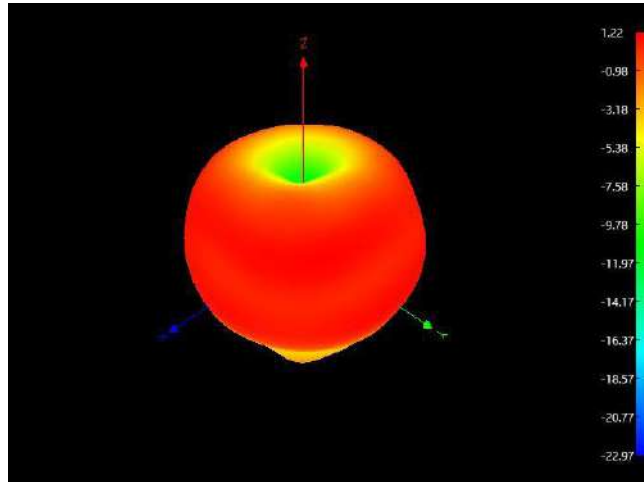


Figure 3 2500MHz

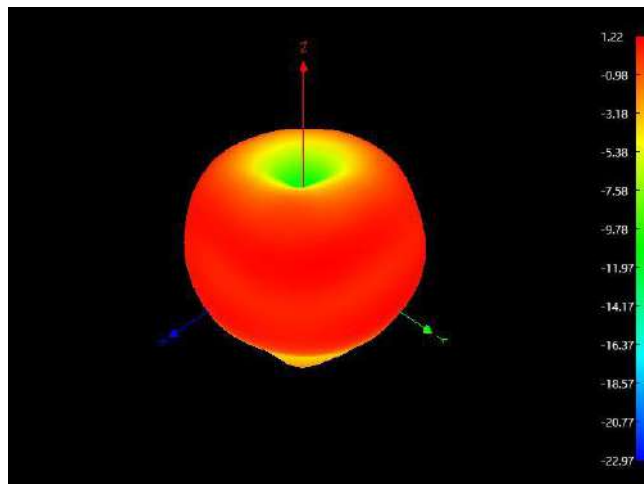


Figure 4 2700MHz

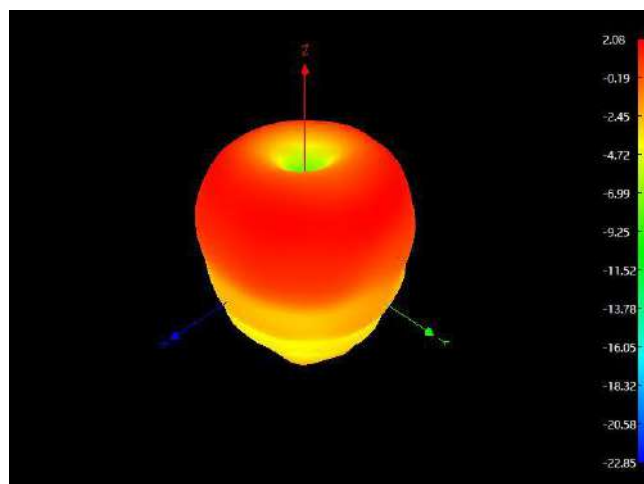


Figure 5 3600MHz

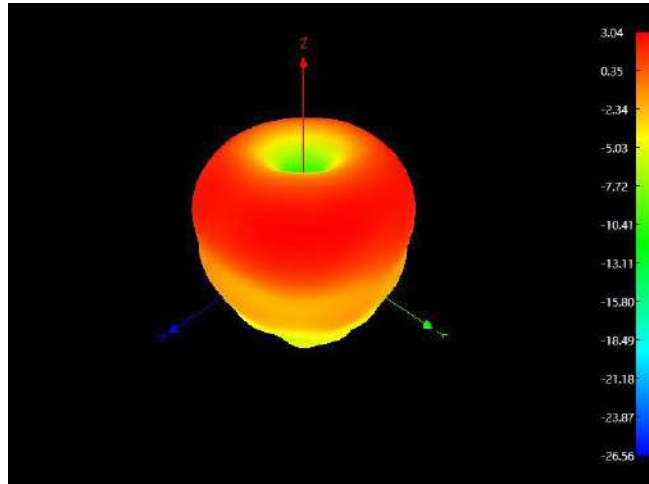


Figure 6 4900MHz

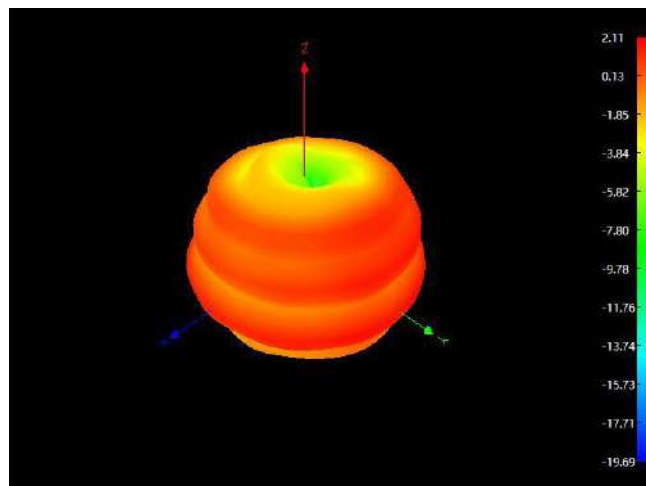


Figure 7 5500MHz

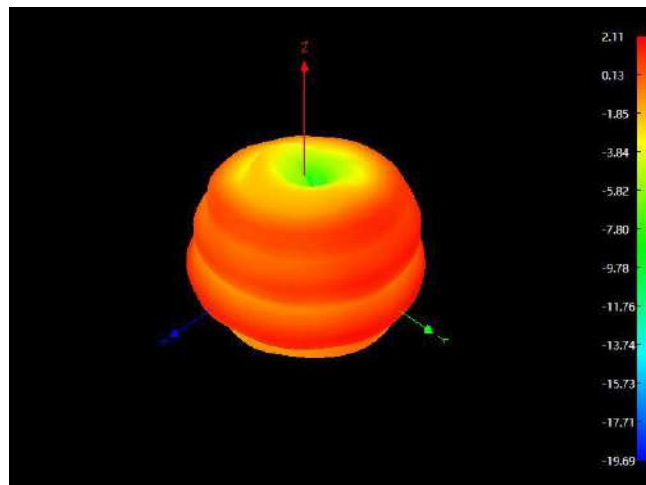


Figure 8 5800MHz

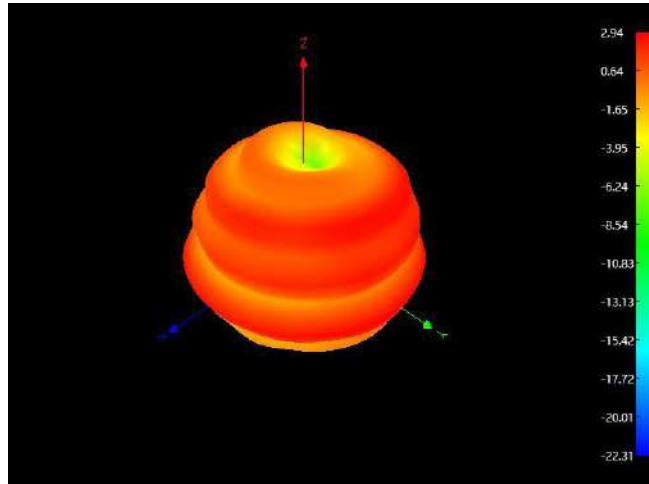


Figure 9 5800MHz

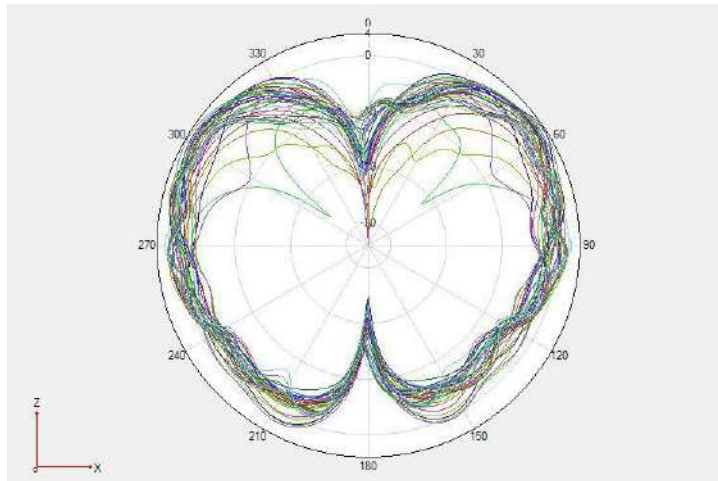


Figure 10 Phi 0 2D 图

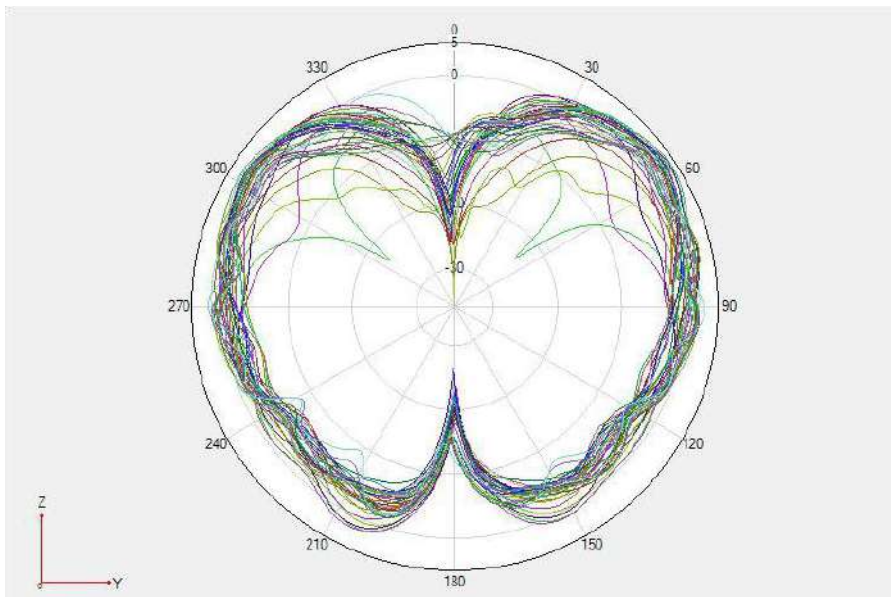


Figure 11 Phi 90 2D 图

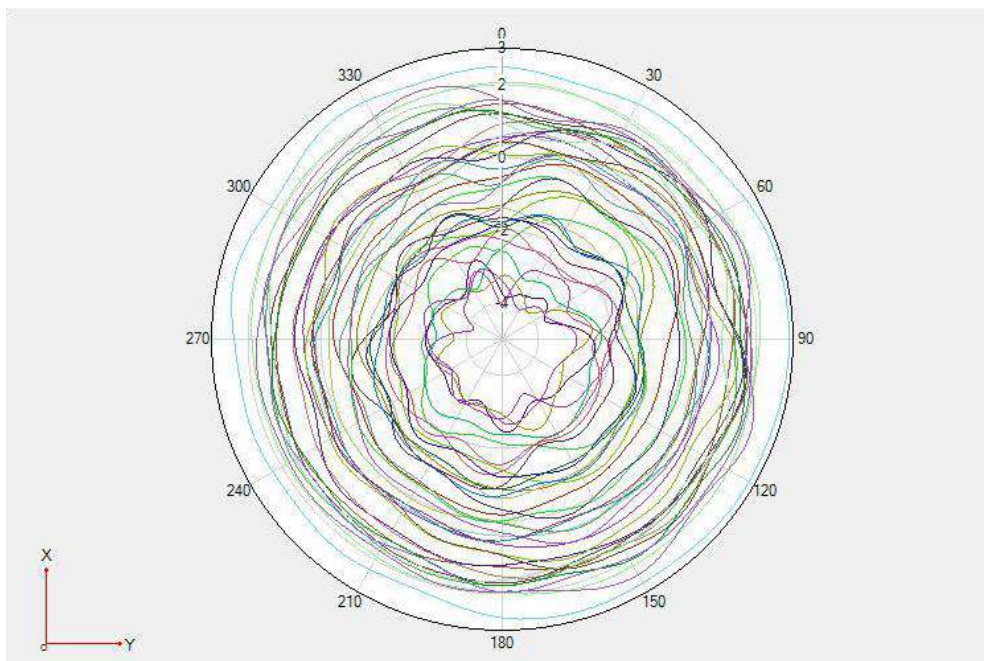


Figure 12 Theta 90 2D 图

5. 联系方式 Contact

95Power Information Technology Co., Ltd

深圳市微能信息科技有限公司

地址：深圳市龙华区工业东路利金城工业园 9 栋 6 楼

Address: 6 Floor, Building 9, Lijincheng Scientific & Technical Park, Gongye East Road, Longhua District, Shenzhen

Tel: 86-755 23779409

Fax: 86-755 23779409

E-mail: sales@95power.com.cn

Website: www.95power.com.cn